

Datasheet for ABIN7562864  
**SLC4A2 Protein (AA 1-1237) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC4A2
Protein Characteristics:	AA 1-1237
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Slc4a2 Protein expressed in mammalien cells.
Sequence:	MSSAPRRPAS GADSLHTPEP ESLSPGTPGF PEQEEDELRT LGVERFEEIL QEAGSRGGEE PGRSYGEEDF EYHRQSSHHI HHPLSTHLPP DARRRKTTPQG PGRKPRRRPG ASPTGETPTI EEGEEDEEEA SEAEGFRAPP QQPSPATTPS AVQFFLQEDE GAERKPERTS PSPPTQTPHQ EAAPRASKGA QTGTLVEEMV AVASATAGGD DGAAGRPLT KAQPGHRSYN LQERRRIGSM TGVEQALLPR VPTDESEAQT LATADLDLMK SHRFEDVPGV RRHLVRKNAK GSTQAAREGR EPGPTPRARP RAPHKPHEVF VELNELLLDK NQEPQWRETA RWIKFEEDVE EETERWGKPH VASLSFRSLL ELRRTL AHGA VLLDLDQQTL PGVAHQVVEQ MVISDQIKAE DRANVLRALL LKHSHPSDEK EFSFPRNISA GSLGSLLGHH HAQGTESDPH VTEPLIGGVP ETRLEVDRER ELPPPAPPAG ITRSKSKHEL KLEKIPENA EATVVLVGCV EFLSRPTMAF VRLREAVELD AVLEVPVPVR FLFLLLGPSS ANMDYHEIGR SISTLMSDKQ FHEAAYLADE RDDLLTAINA FLDCSVLPP SEVQGEELLR SVAHFQRQML KKREEQGRLL PPGAGLEPKS AQDKALLQMV

EVAGAAEDDP LRRTGRPFEGG LIRDVRRRYP HYLSDFRDAL DPQCLAAVIF IYFAALSPAI  
TFGGLLGEKT KDLIGVSELI MSTALQGVVF CLLGAQPLL VIGFSGPLLVF EEAFFSFCSS  
NELEYLVGRV WIGFWLVFLA LLMVALEGSF LVRFVSRFTQ EIFAFLISLI FIYETFYKLI  
KIFQEHLPHG CSGSNDSEAG SSSSSNMTWA TTILVPDNSS ASGQSGQEKP RGQPNTALLS  
LVLMAGTFFI AFFLRKFKNS RFFPGRIRRV IGDFGVPIAI LIMVLVDYSI EDTYTQKLSV  
PSGFSVTAPD KRGWVINPLG EKTPFPVWMM VASLLPAVLV FILIFMETQI TTLISKKER  
MLQKGS GFHL DLLLIVAMGG ICALFGLPWL AAATVRSVTH ANALTVMSKA VAPGDKPKIQ  
EVKEQRTGL LVALLVGLSM VIGDLLRQIP LAVLFGIFLY MGVTSLNIGQ FYERLHLLLM  
PPKHPDVTY VKKVRTMRMH LFTALQLLCL ALLWAVMSTA ASLAFPFILI LTVPLRMVVL  
TRIFTEREMK CLDANAEAPV FDECEGVDEY NEMPMPV **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

SLC4A2

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### Alternative Name:

Slc4a2 ([SLC4A2 Products](#))

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## Target Details

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**Background:** Anion exchange protein 2 (AE 2) (Anion exchanger 2) (Band 3-related protein) (B3RP) (Non-erythroid band 3-like protein) (Solute carrier family 4 member 2),FUNCTION: Sodium-independent anion exchanger which mediates the electroneutral exchange of chloride for bicarbonate ions across the cell membrane (PubMed:2371270, PubMed:12958022, PubMed:18971331, PubMed:23341620, PubMed:24515893). Plays an important role in osteoclast differentiation and function (PubMed:18971331, PubMed:23341620). Regulates bone resorption and calpain-dependent actin cytoskeleton organization in osteoclasts via anion exchange-dependent control of pH (PubMed:23341620). Essential for intracellular pH regulation in CD8(+) T-cells upon CD3 stimulation, modulating CD8(+) T-cell responses (PubMed:24515893). {ECO:0000269|PubMed:12958022, ECO:0000269|PubMed:18971331, ECO:0000269|PubMed:23341620, ECO:0000269|PubMed:2371270, ECO:0000269|PubMed:24515893},, FUNCTION: [Isoform A]: Plays a critical role in male fertility and spermiogenesis. {ECO:0000269|PubMed:14673081},, FUNCTION: [Isoform B1]: Plays a critical role in male fertility and spermiogenesis. {ECO:0000269|PubMed:14673081},, FUNCTION: [Isoform B2]: Plays a critical role in male fertility and spermiogenesis. {ECO:0000269|PubMed:14673081}.

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**Molecular Weight:** 136.8 kDa

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**UniProt:** [P13808](#)

## Application Details

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**Application Notes:** In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** 12 months